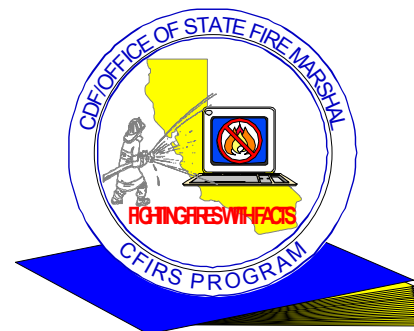


1999 FIREWORKS INJURIES

Hospital Emergency Room Survey
June 17 - July 16, 1999



**California Department of Forestry & Fire
Protection**

**Office of the State Fire Marshal
California Fire Incident Reporting System
Program**



1999 FIREWORKS INJURIES
Hospital Emergency Room Survey
June 17 – July 16



This report describes the results of the 1999 Annual Fireworks Injury Survey that is conducted each year upon completion of the Fourth-of-July holiday season.

Neighborhood medical clinics are not included in this survey. These incident records are collected from hospital emergency rooms only, and may not reflect the total number of injuries actually experienced. The number of hospitals with emergency rooms that participated in last year's survey was 180, compared to 238 in 1999. We have conducted this study with the hospital emergency rooms since 1982. Of the 188 injuries reported, Illegal fireworks accounted for 37%, with Unknown as 35% and Safe & Sane trailing at 29%.

The number sampling indicates that illegal fireworks continue to be the major contributor to injuries that result in emergency medical treatment. This would seem to indicate that the problem is continuing in spite of both increased enforcement and educational efforts.

On behalf of the California Fire Service, the Office of the State Fire Marshal commends the participating hospitals, the California Hospital Association for the endorsement and the medical professionals for their continuing support of this data collection process. Their cooperation is essential to the credibility and validity of this annual report. A list of these participating hospitals is included in the following pages.

Copies of this report may be obtained by contacting the CFIRS Program office at (916) 445-8588.



Hospitals Reporting Injuries

June 17 - July 16, 1999

ALAMEDA COUNTY

Alta Bates
Children's Hospital
Eden Hospital
Kaiser - Hayward
St Rose Hospital*

BUTTE COUNTY

Feather River Hospital *

COLUSA COUNTY

Colusa Community Hospital

CONTRA COSTA COUNTY

Doctor's Medical Center *
Mt Diablo Medical Center

DEL NORTE COUNTY

Sutter Coast Hospital

EL DORADO COUNTY

Barton Memorial Hospital *

FRESNO COUNTY

Community Medical Center-
Clovis *
Fresno Community Hospital
Selma District Hospital *
Sierra Kings Hospital
St Agnes Medical Center
Valley Children's Pediatric Plus

GLENN COUNTY

Glenn Medical Center *

HUMBOLDT COUNTY

General Hospital
Redwood Memorial Hospital *
St Joseph Hospital

IMPERIAL COUNTY

Pioneers Memorial Hospital

INYO COUNTY

Northern Inyo Hospital *
Southern Inyo Hospital *

KERN COUNTY

Kern Valley Healthcare
District *
Mercy Hospital *
Ridgecrest Regional Hospital
Tehachapi Valley Healthcare
District *

KINGS COUNTY

Coalinga Regional Medical
Center
Corcoran District Hospital

LASSEN COUNTY

Lassen Community Hospital *

LOS ANGELES COUNTY

Alhambra Hospital *
Alta Bellwood General
Hospital *
Arcadia Methodist Hospital
Bellflower Medical Center *
Cedar -Sinai Medical Center

Children's Hospital Of Los
Angeles

Citrus Valley Medical Center
Coast Plaza doctors Hospital
Community Hospital of
Gardena *

Daniel Freeman Memorial
Hospital

Downey Community Hospital
Garfield Medical Center
Glendale Memorial Medical
Center

Greater Elmonte Community
Hospital

Huntington East Valley Hospital
Huntington Memorial Hospital
Lakewood Regional Medical
Center *

Little Company of Mary
Hospital *

Long Beach Community
Medical Center

Long Beach Memorial
Hospital *

Methodist Hospital of Arcadia
Midway Hospital *

Mission Community Hospital *
Mission Hospital of Huntington
Park

Pacific Alliance Medical
Center *

Presbyterian Inter-Community
Hospital

Providence Holy Cross Medical
Center *

Providence St Joseph Medical
Center *

Robert F Kennedy Hospital
Saint Johns Health Center*

(L.A. CO continued)

San Gabriel Valley Medical
Center *

Centinela Hospital

San Pedro Hospital
Santa Teresita Hospital
St Luke Medical Center *
Tarzana Regional Medical
Center *
Vencor Hospital-Los Angeles *
West Hills Hospital

MARIN COUNTY

Navato Community Hospital

MENDOCINO COUNTY

Ukiah Valley Medical Center *
Howard Memorial Hospital *
Mendocino Coast District
Hospital *

MERCED COUNTY

Mercy Hospital

MODOC COUNTY

Modoc Medical Center *

MONO COUNTY

Mammoth Hospital *

NAPA COUNTY

Holderman Hospital *
Queen of the Valley Hospital *
St. Helena Hospital *

NEVADA COUNTY

Sierra Nevada Memorial *

ORANGE COUNTY

Anaheim Memorial Medical
Center
Brea Community Hospital *
Chapman Medical Center
Fountain Valley Hospital
Garden Grove Hospital

Huntington Beach Hospital
Kaiser- Anaheim
Kaiser- Orange
Los Alamitos Medical Center
Mission Hospital

New Port Bay Hospital *
Placentia Linda Hospital *
San Clemente Hospital *
Santa Ana Hospital *
South Coast Medical Center
St Jude Medical Center *
Western Medical Center –
Anaheim *

PLACER COUNTY

Kaiser- Roseville
Sutter Auburn Faith Hospital
Sutter Roseville Medical Center

RIVERSIDE COUNTY

Corona Regional Hospital
Eisenhower Medical Center
Desert Regional Medical
Center *
Kaiser- Riverside
Parkview Community Hospital *
Rancho Springs Medical
Center *
Riverside Community Hospital *
Riverside County regional
Medical Center

SACRAMENTO COUNTY

Kaiser- North Sacramento
Kaiser- South Sacramento
Shriner's Hospital for Children *
Sutter Memorial Hospital *
U.C.D. Medical Center
SAN BENITO COUNTY
Hazel Hawkins Memorial
Hospital *

SAN BERNARDINO

Barstow Community Hospital *
Chino Valley Medical Center
Desert Valley Hospital *
Hi Desert Medical Center *

Loma Linda University Medical
Center
Redlands Community Hospital
San Antonio Community
Hospital
San Bernardino Mountains
Community Hospital *
Victor Valley Community
Hospital *

SAN DIEGO COUNTY

Mission Bay Hospital *
Paradise Valley Hospital
Scripps Hospital - East
County *
Scripps Memorial Hospital *
Sharp Chula Vista Medical
Center *
Sharp Coronado Hospital *
Tri-City Medical Center *
U.C.S.D. Medical Center *

SAN FRANCISCO COUNTY

Kaiser- South San Francisco
San Francisco General Hospital
St Francis Memorial Hospital *
St Lukes Hospital

SAN JOAQUIN COUNTY

Dameron Hospital
Lodi Memorial Hospital *
San Joaquin General Hospital *

SAN LUIS OBISPO

San Luis Obispo General
Hospital *
Sierra Vista Regional Medical
Center *
Twin Cities Community Hospital

SAN MATEO COUNTY

Mills Hospital *
Mills-Peninsula Medical
Center *

SANTA BARBARA

Marian Medical Center
Santa Ynez Valley Cottage
Hospital*

SANTA CLARA COUNTY

Community Hospital – Los
Gatos *
Good Samaritan Hospital *
Kaiser- Santa Clara *
Saint Louise Hospital
San Jose Medical Center *
South Valley Hospital
UCSF/ Stanford Healthcare

SANTA CRUZ COUNTY

Dominican Santa Cruz Hospital
Watsonville Community
Hospital *

SHASTA COUNTY

Mercy Medical Center *
Redding Medical Center *

SISKIYOU COUNTY

Fairchild Medical Center
Mercy Medical Center- Mt
Shasta *

SONOMA COUNTY

Sonoma Valley Hospital
Sutter Medical Center
Warrack Hospital

STANISLAUS COUNTY

Del Puerto Hospital *
Doctor's Medical Center
Emanuel Medical Center
Memorial Medical Center
Oak Valley Hospital

SUTTER COUNTY

Rideout Memorial Hospital

TRINITY COUNTY

Trinity Hospital*

TULARE COUNTY

Kaweah Delta Hospital
Sierra View District Hospital *
Tulare District Hospital

TUOLUMNE COUNTY

Sonora Community Hospital
Tuolumne General Hospital *

VENTURA COUNTY

Community Memorial Hospital
Santa Paula Memorial Hospital
Simi Valley Hospital *
St Johns Pleasant Valley
Hospital *
St John's Regional Medical
Center *
Ventura County Medical
Center *

YUBA COUNTY

Rideout Hospital *

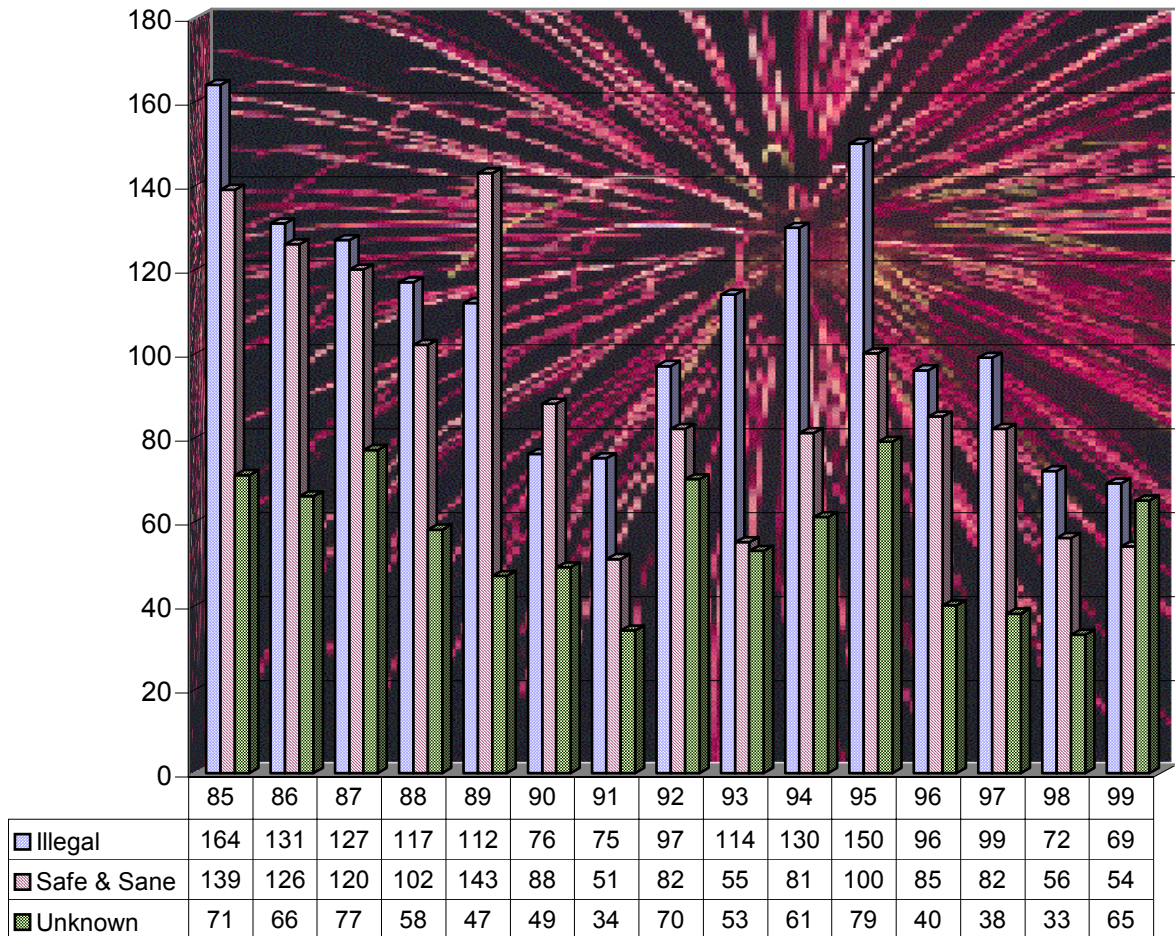
YOLO COUNTY

Sutter Davis Hospital

FIREWORKS INJURIES

Hospital Emergency Room Survey

June 17 - July 16, 1999



Hospital Injury Data
INJURIES BY FIREWORKS CLASSIFICATION BY COUNTY
June 17 thru July 16, 1999

COUNTY	TOTAL	LEGAL	ILLEGAL	UNKNOWN
01 Alameda	6	2	3	1
06 Colusa	1	1	0	0
07 Contra Costa	1	0	1	0
08 Del Norte	1	0	1	0
10 Fresno	9	3	4	2
12 Humboldt	2	1	0	1
13 Imperial	3	0	1	2
15 Kern	1	0	1	0
16 Kings	2	0	0	2
19 Los Angeles	69	19	24	26
21 Marin	1	0	1	0
30 Orange	17	6	8	3
31 Placer	5	2	1	2
33 Riverside	7	1	4	2
34 Sacramento	5	1	2	2
36 San Bernardino	12	2	4	6
37 San Diego	1	0	1	0
38 San Francisco	7	1	4	2
39 San Joaquin	1	1	0	0
40 San Luis Obispo	1	0	0	1
42 Santa Barbara	1	1	0	0
43 Santa Clara	3	3	0	0
44 Santa Cruz	1	0	0	1
47 Siskiyou	1	0	1	0
49 Sonoma	3	1	1	1
50 Stanislaus	13	4	4	5
51 Sutter	1	1	0	0
54 Tulare	8	4	1	3
55 Tuolumne	2	0	0	2
56 Ventura	2	0	1	1
58 Yuba	1	0	1	0
Total	188	54	69	65

Counties reporting no hospital injuries:

04 Butte	24 Merced	41 San Mateo
09 El Dorado	25 Modoc	45 Shasta
10 Glenn	26 Mono	53 Trinity
14 Inyo	28 Napa	57 Yolo
18 Lassen	29 Nevada	
23 Mendocino	35 San Benito	

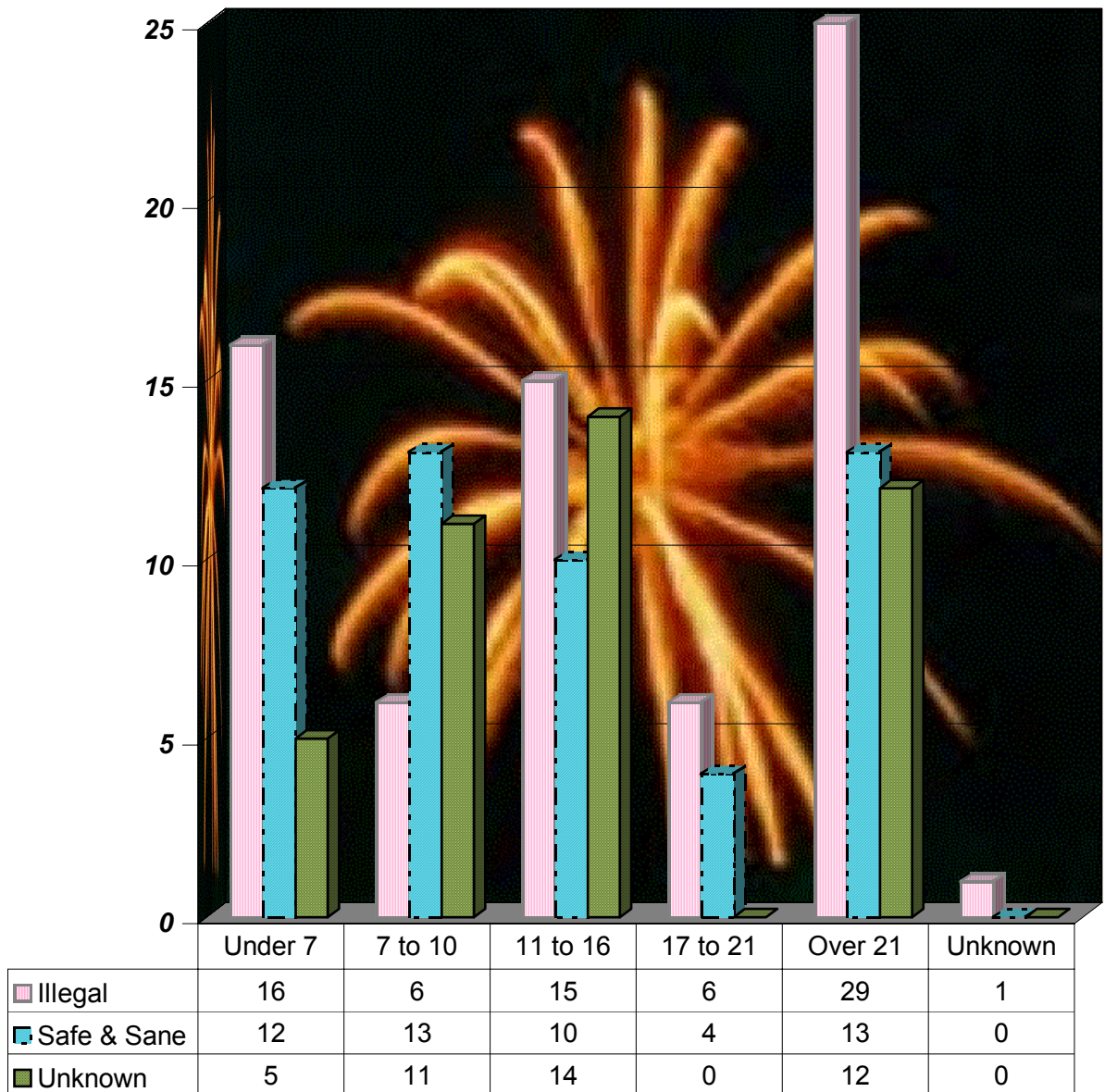
Counties with no hospitals reporting:

02 Alpine	27 Monterey
03 Amador	32 Plumas
05 Calaveras	46 Sierra
17 Lake	48 Solano
20 Madera	52 Tehama
22 Mariposa	

Hospital Injury Data

Injuries by Fireworks Classification by Age

June 17 - July 16, 1999



Hospital Injury Data

INJURIES BY TYPE OF FIREWORKS DEVICE BY AGE

JUNE 17 THRU JULY 16, 1999

TYPE OF DEVICE	TOTAL OF DEVICE	AGE					
		UNDER 7	7 – 10	11 – 16	17 – 21	OVER 21	UNKNOW N
Firecracker *	26	2	4	6	3	10	1
M80, Etc *	10	0	1	4	0	5	0
Smoke Bombs	8	1	3	1	0	3	0
Sparkler, Wire Core *	17	9	1	2	2	3	0
Wheel	3	1	2	0	0	0	0
Party Popper	1	0	0	0	0	1	0
Sky Rocket with Stick *	2	1	0	0	0	1	0
Bottle Rocket *	5	0	0	0	0	5	0
California Candle (hand held)	3	2	1	0	0	0	0
Roman Candle (shoots balls) *	5	0	0	1	1	3	0
Handle Fountain (hand held)	1	0	0	0	1	0	0
Unknown (probably thrown)	2	1	0	0	0	1	0
Cone Fountain	4	1	1	1	0	1	0
Base Fountain	10	0	4	3	2	1	0
Torpedo (snap caps)	3	1	0	0	1	1	0
Other	25	2	6	7	4	6	0
Display, Public	9	1	1	3	0	4	0
Homemade *	4	0	0	2	0	2	0
Ground Spinner (ground flower)	1	0	0	0	0	1	0
Unknown (probably hand held)	10	2	1	4	0	3	0
Unknown (probably rocket)	6	0	2	3	0	1	0
Unknown (unclassified)	24	2	8	7	0	7	0
Sparkler, wooden core	9	5	1	2	0	1	0
TOTAL BY AGE	188	31	36	46	14	60	1

* Denotes **ILLEGAL** device

Hospital Injury Data

INJURIES BY TYPE OF FIREWORKS DEVICE BY BODY PART INJURED

JUNE 17 THRU JULY 16, 1999

Type Of Device	Total Body Parts Injured	Head Face	Eyes	Neck	Arm	Hand Except Fingers	Finger s	Torso	Leg	Foot	Other
Firecracker *	36	3	10	1	1	7	6	2	2	0	4
M80, Etc. *	13	1	1	1	2	1	4	0	1	0	2
Smoke Bombs	9	0	1	0	0	3	5	0	0	0	0
Sparkler, Wire Core *	20	3	7	3	0	4	2	0	0	1	0
Wheel	2	0	0	0	0	1	1	0	0	0	0
Party Popper	1	0	0	0	0	0	1	0	0	0	0
Sky Rocket with stick *	2	2	0	0	0	0	0	0	0	0	0
Bottle Rocket *	6	2	1	0	1	1	0	0	0	1	0
California Candle (hand held)	4	2	0	0	0	0	0	1	0	0	1
Roman Candle (shoots balls) *	5	1	1	0	0	2	1	0	0	0	0
Handle Fountain (hand held)	2	0	0	0	0	1	1	0	0	0	0
Unknown (Probably thrown)	4	1	1	1	0	0	0	0	0	0	1
Cone Fountain	10	2	2	1	1	2	1	1	0	0	0
Base Fountain	18	3	4	1	1	3	4	0	2	0	0
Torpedo (Snap caps)	6	1	2	0	0	0	0	0	1	1	1
Other	31	2	2	0	2	12	12	0	0	1	0
Display, Public	9	0	5	0	1	1	0	1	1	0	0
Homemade *	9	3	2	0	0	2	0	1	1	0	0
Ground Spinner (ground flower)	1	0	0	0	1	0	0	0	0	0	0
Unknown (Probably hand held)	12	1	1	0	1	5	4	0	0	0	0
Unknown (Probably rocket)	9	1	2	1	1	0	1	1	1	0	1
Unknown (Unclassified)	28	5	7	1	1	6	2	1	5	0	0
Sparkler, Wooden Core	17	2	3	2	1	3	3	2	0	0	1
Total	254	35	52	12	14	54	48	10	14	4	11

FIGURES REFLECT INJURY TO MORE THAN ONE BODY PART FOR SOME INCIDENTS.

* Denotes ILLEGAL device

Hospital Injury Data

INJURIES BY TYPE OF FIREWORKS DEVICE BY TYPE OF INJURY

JUNE 17 THRU JULY 16, 1999

Type Of Device	Total Injury Types	TYPE OF INJURY									
		BURN 1 st Degree	BURN 2 nd Degree	BURN 3 rd Degree	Abrasion	Laceration	Fracture	Loss of sight	Dismemberment	Fatality	Other
Firecracker *	28	9	7	1	1	3	0	1	1	0	5
M80, Etc. *	15	1	3	0	2	4	0	1	1	0	3
Smoke Bombs	6	3	3	0	0	0	0	0	0	0	0
Sparkler, Wire Core *	23	10	10	1	2	0	0	0	0	0	0
Wheel	2	1	1	0	0	0	0	0	0	0	0
Party Popper	0	0	0	0	0	0	0	0	0	0	0
Sky Rocket with stick *	3	1	0	0	1	1	0	0	0	0	0
Bottle Rocket *	6	2	0	0	1	2	0	0	0	0	1
California Candle (hand held)	3	2	0	0	0	1	0	0	0	0	0
Roman Candle (shoots balls) *	6	1	3	0	0	1	0	0	1	0	0
Handle Fountain (hand held)	1	0	1	0	0	0	0	0	0	0	0
Unknown (Probably thrown)	3	2	1	0	0	0	0	0	0	0	0
Cone Fountain	4	1	3	0	0	0	0	0	0	0	0
Base Fountain	9	2	6	0	0	0	0	1	0	0	0
Torpedo (Snap caps)	2	0	0	0	1	0	0	0	0	0	1
Other	32	9	14	2	0	1	0	0	1	0	5
Display, Public	9	1	3	0	2	0	0	0	0	0	3
Homemade *	11	0	3	0	3	3	1	0	1	0	0
Ground Spinner (ground flower)	1	0	1	0	0	0	0	0	0	0	0
Unknown (Probably hand held)	10	3	5	1	1	0	0	0	0	0	0
Unknown (Probably rocket)	9	4	4	0	1	0	0	0	0	0	0
Unknown (Unclassified)	29	6	12	1	4	4	0	0	0	0	2
Sparkler, Wooden Core	8	2	5	0	1	0	0	0	0	0	0
Total by Injury	220	60	85	6	20	20	1	3	5	0	20

FIGURES REFLECT MORE THAN ONE TYPE OF INJURY FOR SOME INCIDENTS.

*** Denotes ILLEGAL device**